

AMENDMENTS TO THE SPECIFICATION

Please replace the title on page 1 of the specification with the following:

Methods for Ultrasound Visualization of a Vessel with Location and Cycle Information

Please replace the paragraph on page 4, lines 8-12 of the specification with the following:

As has already been mentioned, the causes of the cyclic intrinsic movement of vessels are primarily the heartbeat and breathing. The device according to the first and/or second aspect of the invention therefore preferably comprises an electrocardiograph for recording a (electrical) parameter that characterizes the heart phase and/or a breathing sensor (14) for recording a parameter that characterizes the breathing phase.

Please replace the abstract on page 13 with the following paragraph:

~~The invention relates to a device and a method~~ Methods for displaying a vessel [(2)] with the aid of intravascular ultrasound images and current location and cycle information provided by detectors and sensors [(I)]. A sequence of intravascular ultrasound images  $(I(E,x))$  ~~is generated by means of a probe (5) and stored in a memory (10) in a manner are stored and indexed by the associated location (x) where they were generated and also the associated~~ and by heartbeat phase (E) and/or and breathing phase. During a subsequent medical intervention, ~~these~~ ultrasound images  $(I_1, I_2, I_3)$  ~~which best that correspond to the heartbeat phase of a current fluoroscopic image [(A<sub>i</sub>)] or belong to the current stopping phase and location of an object of interest such as a catheter [(13)] can be selected from the memory (10) and displayed on a monitor in real time along with an x-ray image of the vessel, the display showing the geometric position of the ultrasound images with reference to the x-ray image [(12)].~~